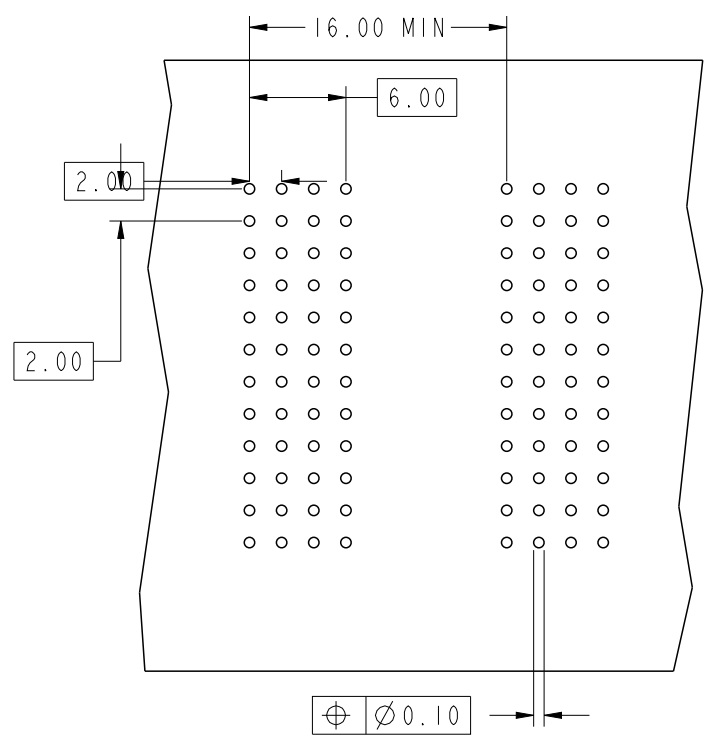




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REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	5.00	4.30
2	5.75	4.30
3	6.50	4.30
4	7.25	4.30
5	5.00	13.60
6	5.75	13.60
7	6.50	13.60
8	7.25	13.60
9	5.00	17.00
10	5.75	17.00
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
15	8.25	17.00
16	7.00	4.30
17	7.00	13.60
18	7.00	17.00
19	8.00	4.30

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
20	8.00	13.60
21	8.00	17.00
22	5.00	12.10
25	5.75	15.60
40	5.00	15.60
41	6.50	15.60
42	7.25	15.60
43	8.00	15.60
44	5.75	12.10
45	6.50	12.10
48	5.00	15.10
54	5.00	11.50
55	5.75	11.50
56	6.50	11.50
59	5.00	11.80
60	5.75	11.80
61	6.50	11.80
62	7.25	11.80
63	8.00	11.80

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	21:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
FCi		title			METRAL SIGNAL HEADER		rev	
					I MOD, 5 ROW PRESS-FIT		BH	
www.fci.com		cat. no.			-		Product - Customer Drw	
							sheet 2 of 9	



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dr	Terran Huang	2010/07/08			size	A4	scale	1:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
			title		METRAL SIGNAL HEADER		rev	
www.fci.com			cat. no.		-		Product - Customer Drw	
			dwg no		85838		sheet 3 of 9	
							BH	



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		1								2								3								4									
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
85838-X17		E	14	14	14	14	14	14	85838-X21		E	10	10	10	10	10	10	85838-X25		E	22	22	22	22	22	22	85838-X29		E	56	56	56	56	56	56
-----		D	14	14	14	14	14	14	-----		D	10	10	10	10	10	10	-----		D	22	22	22	22	22	22	-----		D	56	56	56	56	56	56
		C	14	14	14	14	14	14			C		9	9	9	9	9			9	C		22	22	22	22			22	22	C		56	56	56
85838-X17LF		B	14	14	14	14	14	14	:85838-X21LF		B	9	9	9	9	9	9	85838-X25LF		B	22	22	22	22	22	22	85838-X29LF		B	56	56	56	56	56	56
		A	14	14	14	14	14	14			A	11	11	11	11	11	11			A	22	22	22	22	22	22			A	56	56	56	56	56	56
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
85838-X18		E	18	18	18	18	18	18	85838-X22		E	2	2	2	2	2	2	85838-X26		E	54	54	54	54	54	54	85838-X30		E	3	3	3	3	3	3
-----		D	18	18	18	18	18	18	-----		D	4	4	4	4	4	4	-----		D	55	55	55	55	55	55	-----		D	3	3	3	3	3	3
		C	18	18	18	18	18	18			C		2	2	2	2	2			2	C		56	56	56	56			56	56	C		19	19	19
85838-X18LF		B	18	18	18	18	18	18	85838-X22LF		B	2	2	2	2	2	2	85838-X26LF		B	55	55	55	55	55	55	85838-X30LF		B	3	3	3	3	3	3
		A	18	18	18	18	18	18			A	2	2	2	2	2	2			A	54	54	54	54	54	54			A	3	3	3	3	3	3
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
85838-X19		E	15	15	15	15	15	15	85838-X23		E	19	19	19	19	19	19	85838-X27		E	48	48	48	48	48	48	85838-X31		E	1	1	1	1	1	1
-----		D	15	15	15	15	15	15	-----		D	1	1	1	1	1	1	-----		D	48	48	48	48	48	48	-----		D	3	3	3	3	3	3
		C	15	15	15	15	15	15			C		19	19	19	19	19			19	C		48	48	48	48			48	48	C		19	19	19
85838-X19LF		B	15	15	15	15	15	15	85838-X23LF		B	1	1	1	1	1	1	85838-X27LF		B	48	48	48	48	48	48	85838-X31LF		B	3	3	3	3	3	3
		A	15	15	15	15	15	15			A	19	19	19	19	19	19			A	48	48	48	48	48	48			A	1	1	1	1	1	1
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
85838-X20		E	10	10	10	10	10	10	85838-X24		E	20	20	20	20	20	20	85838-X28		E	3	3	3	3	3	3	85838-X32		E	1	1	1	1	1	1
-----		D	9	9	9	9	9	9	-----		D	5	5	5	5	5	5	-----		D	19	19	19	19	19	19	-----		D	1	1	1	1	1	1
		C	10	10	10	10	10	10			C		20	20	20	20	20			20	C		3	3	3	3			3	3	C		2	2	2
85838-X20LF		B	9	9	9	9	9	9	85838-X24LF		B	5	5	5	5	5	5	85838-X28LF		B	3	3	3	3	3	3	:85838-X32LF		B	1	1	1	1	1	1
		A	11	11	11	11	11	11			A	20	20	20	20	20	20			A	1	1	1	1	1	1			A	2	2	2	2	2	2



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1							2							3							4						
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X33		E	6	6	6	6	6	6	85838-X37		E	3	3	3	3	3	3	85838-X41		E	61	61	61	61	61	61	
		D	6	6	6	6	6	6			D	3	3	3	3	3	3			D	61	61	61	61	61	61	
-----		C	6	6	6	6	6	6	-----		C	4	4	4	4	4	4	-----		C	61	61	61	61	61	61	
85838-X33LF		B	5	5	5	5	5	5	85838-X37LF		B	19	19	19	19	19	19	85838-X41LF		B	61	61	61	61	61	61	
		A	5	5	5	5	5	5			A	19	19	19	19	19	19			A	61	61	61	61	61	61	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X34		E	19	19	19	19	19	19	85838-X38		E	59	59	59	59	59	59	85838-X42		E	60	60	60	60	60	60	
		D	19	19	19	19	19	19			D	59	59	59	59	59	59			D	60	60	60	60	60	60	
-----		C	19	19	19	19	19	19	-----		C	59	59	59	59	59	59	-----		C	60	60	60	60	60	60	
85838-X34LF		B	4	4	4	4	4	4	85838-X38LF		B	59	59	59	59	59	59	85838-X42LF		B	62	62	62	62	62	62	
		A	4	4	4	4	4	4			A	59	59	59	59	59	59			A	60	60	60	60	60	60	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X35		E	2	2	2	2	2	2	85838-X39		E	59	59	59	59	59	59	85838-X43		E	61	61	61	61	61	61	
		D	4	4	4	4	4	4			D	59	59	59	59	59	59			D	61	61	61	61	61	61	
-----		C	4	4	4	4	4	4	-----		C	59	59	59	59	59	59	-----		C	62	62	62	62	62	62	
85838-X35LF		B	4	4	4	4	4	4	85838-X39LF		B	59	59	59	59	59	59	85838-X43LF		B	63	63	63	63	63	63	
		A	2	2	2	2	2	2			A	61	61	61	61	61	61			A	63	63	63	63	63	63	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X36		E	21	21	21	21	21	21	85838-X40		E	60	60	60	60	60	60	85838-X44		E	61	61	61	61	61	61	
		D	21	21	21	21	21	21			D	61	61	61	61	61	61			D	61	61	61	61	61	61	
-----		C	21	21	21	21	21	21	-----		C	60	60	60	60	60	60	-----		C	61	61	61	61	61	61	
85838-X36LF		B	12	12	12	12	12	12	85838-X40LF		B	60	60	60	60	60	60	85838-X44LF		B	63	63	63	63	63	63	
		A	12	12	12	12	12	12			A	61	61	61	61	61	61			A	61	61	61	61	61	61	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X45		E	60	60	60	60	60	60	85838-X46		E	62	62	62	62	62	62	85838-X47		E	63	63	63	63	63	63	
		D	60	60	60	60	60	60			D	62	62	62	62	62	62			D	63	63	63	63	63	63	
-----		C	60	60	60	60	60	60	-----		C	62	62	62	62	62	62	-----		C	63	63	63	63	63	63	
85838-X45LF		B	60	60	60	60	60	60	85838-X46LF		B	62	62	62	62	62	62	85838-X47LF		B	63	63	63	63	63	63	
		A	60	60	60	60	60	60			A	62	62	62	62	62	62			A	63	63	63	63	63	63	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6	
85838-X48		E	40	40	40	40	40	40	85838-X49		E	40	40	40	40	40	40	85838-X50		E	40	40	40	40	40	40	
		D	40	40	40	40	40	40			D	40	40	40	40	40	40			D	40	40	40	40	40	40	
-----		C	40	40	40	40	40	40	-----		C	40	40	40	40	40	40	-----		C	40	40	40	40	40	40	
85838-X48LF		B	40	40	40	40	40	40	85838-X49LF		B	40	40	40	40	40	40	85838-X50LF		B	40	40	40	40	40	40	
		A	40	40	40	40	40	40			A	40	40	40	40	40	40			A	40	40	40	40	40	40	

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
			title			dwg no		rev
			METRAL SIGNAL HEADER			85838		BH
I MOD, 5 ROW PRESS-FIT								
www.fci.com			cat. no.		-	Product - Customer Drw		sheet 5 of 9



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dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level			Released
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			dwg no			rev
		METRAL SIGNAL HEADER			85838			BI
		I MOD, 5 ROW PRESS-FIT						
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 6 of 9



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METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X65	E	6	6	6	6	6	6
	D	7	7	7	7	7	7
-----	C	8	8	8	8	8	8
85838-X65LF	B	8	8	8	8	8	8
	A	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X66	E	1	1	1	1	1	1
	D	1	1	1	1	1	1
-----	C	-	-	-	-	-	-
85838-X66LF	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X67	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
-----	C	2	2	2	2	2	2
85838-X67LF	B	2	2	2	2	2	2
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X68	E	60	60	60	60	60	60
	D	59	59	59	59	59	59
-----	C	60	60	60	60	60	60
85838-X68LF	B	60	60	60	60	60	60
	A	61	61	61	61	61	61

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X69	E	1	1	1	1	1	1
	D	2	2	2	2	2	2
-----	C	2	2	2	2	2	2
85838-X69LF	B	2	2	2	2	2	2
	A	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X70	E	19	19	19	19	19	19
	D	19	19	19	19	19	19
-----	C	4	4	4	4	4	4
85838-X70LF	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X71	E	3	3	3	3	3	3
	D	3	3	3	3	3	3
-----	C	3	3	3	3	3	3
85838-X71LF	B	3	3	3	3	3	3
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X72	E	6	6	6	6	6	6
	D	8	8	8	8	8	8
-----	C	8	8	8	8	8	8
85838-X72LF	B	8	8	8	8	8	8
	A	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X73	E	3	3	3	3	3	3
	D	3	3	3	3	3	3
-----	C	3	3	3	3	3	3
85838-X73LF	B	3	3	3	3	3	3
	A	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X74	E	19	19	19	19	19	19
	D	1	1	1	1	1	1
-----	C	1	1	1	1	1	1
85838-X74LF	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X75	E	3	3	3	3	3	3
	D	2	2	2	2	2	2
-----	C	2	2	2	2	2	2
85838-X75LF	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X76	E	4	4	4	4	4	4
	D	3	3	3	3	3	3
-----	C	3	3	3	3	3	3
85838-X76LF	B	3	3	3	3	3	3
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X77	E	1	1	1	1	1	1
	D	2	2	2	2	2	2
-----	C	2	2	2	2	2	2
85838-X77LF	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X78	E	3	3	3	3	3	3
	D	2	2	2	2	2	2
-----	C	2	2	2	2	2	2
85838-X78LF	B	2	2	2	2	2	2
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X79	E	19	19	19	19	19	19
	D	19	19	19	19	19	19
-----	C	3	3	3	3	3	3
85838-X79LF	B	3	3	3	3	3	3
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
		1	2	3	4	5	6
85838-X80	E	1	1	1	1	1	1
	D	3	3	3	3	3	3
-----	C	3	3	3	3	3	3
85838-X80LF	B	3	3	3	3	3	3
	A	1	1	1	1	1	1

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10	
eng	Julia Wang	2012/09/19			ecn no		ELX-DG-012854-1		
chr	-	-			rel level		Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL				
			title			METRAL SIGNAL HEADER			rev
						I MOD, 5 ROW PRESS-FIT			
www.fci.com			cat. no.			-			BH
			Product - Customer Drw			sheet 7 of 9			

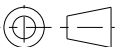


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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85838-X81	E	3	3	3	3	3	3
	D	1	1	1	1	1	1
	C	1	1	1	1	1	1
-----	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85838-X82	E	1	1	1	1	1	1
	D	1	1	1	1	1	1
	C	2	2	2	2	2	2
-----	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85838-X83	E	1	1	-	1	1	1
	D	3	3	-	3	3	3
	C	-	-	3	3	3	3
-----	B	3	3	-	3	3	3
	A	1	1	-	1	1	1

dr	Terran Huang	2010/07/08	projection 	MM 	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			METRAL SIGNAL HEADER			rev
					I MOD, 5 ROW PRESS-FIT			
www.fci.com		cat. no.			-			BH
					Product - Customer Drw			
					sheet 8 of 9			



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PRODUCT NUMBER

85838-XYX

85838-XYXLF

NOTES:

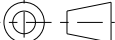
- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL: 85838-XYX IS SnPb, 85838-XYXLF IS Sn(LEAD FREE)
CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER.
EXAMPLE: XXXXX-XXXP
- PRODUCT SPECIFICATION: GS-12-180
APPLICATION SPECIFICATION: BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).

- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1--- AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-	-	-
-AYY	TELCORDIA CO (SEE NOTE 9)	-
-N1YY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-AYXLF	TELCORDIA CO (SEE NOTE 9)	SEE NOTE 10
-N1XXLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5XXLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1XXLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2XXLF	TELECOM CLASS	SEE NOTE 10
-5XXLF	TELCORDIA UE	SEE NOTE 10

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chr	-	-			rel level	Released						
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL							
		title			METRAL SIGNAL HEADER			dwg no		85838	rev	BH
www.fci.com		cat. no.		-		Product - Customer Drw				sheet 9 of 9		